

**Notice of Allowability**

Application No.

10/034,665

Examiner

Trang U. Tran

Applicant(s)

DANTWALA, NEHAL

Art Unit

2622

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to November 15, 2006.
2. ☒ The allowed claim(s) is/are 1-8 and 10-16 (renumbered 1-15).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>5/5/2006</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|   | 9. <input type="checkbox"/> Other _____  |

## **EXAMINER'S AMENDMENT**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 20, 2006 has been entered.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Edward W. Goodman on May 02, 2006.

The application has been amended as follows:

In claim 1, line 10, the phrase "calculating spectral energy" has been changed to --calculating a first spectral energy --, and line 12, the phrase "calculating spectral energy" has been changed to --calculating a second spectral energy --, and lines 16-17, the phrase "from said spectral energy" has been changed to --from said first and said second spectral energy --.

In claim 2, line 2, the phrase "false edge information" has been changed to --false edge information data--.

In claim 3, line 5, the phrase "said number" has been changed to --said total number--, and line 7, the phrase "from said spectral" has been changed to --from said first and said second spectral--.

In claim 5, line 2, the phrase "calculating spectral energy" has been changed to --calculating said second spectral energy --.

In claim 6, line 2, the phrase "calculating spectral energy" has been changed to --calculating said first spectral energy --

In claim 7, line 2, the phrase "second Fourier transforms" has been changed to --second normalized Fourier transforms--.

In claim 8, line 10, the phrase "calculating spectral energy" has been changed to --calculating a first spectral energy --, and line 12, the phrase "calculating spectral energy" has been changed to --calculating a second spectral energy --, and line 17, the phrase "from said spectral energy" has been changed to --from said first and said second spectral energy --.

In claim 10, line 10, the phrase "calculating spectral energy" has been changed to --calculating a first spectral energy --, and line 12, the phrase "calculating spectral energy" has been changed to --calculating a second spectral energy --, and lines 16-17, the phrase "from said spectral energy" has been changed to --from said first and said second spectral energy --.

In claim 11, lines 2-3, the phrase "false edge information" has been changed to --false edge information data--.

In claim 12, line 5, the phrase "said number" has been changed to --said total number--, and line 7, the phrase "from said spectral" has been changed to --from said first and said second spectral--.

In claim 14, line 2, the phrase "calculating spectral" has been changed to --calculating said second spectral--.

In claim 15, line 2, the phrase "calculating spectral" has been changed to --calculating said first spectral--.

In claim 16, line 2, the phrase "second Fourier" has been changed to --second normalized Fourier--.

These changes will place this application in condition for allowance.

3. The following is an examiner's statement of reasons for allowance:

The present invention is directed to a method for optimizing the sharpening of a video sequence using an objective sharpness quality score derived from an objective sharpness metric. Each independent claims identifies the uniquely distinct features:  
"processing the original video sequence to derive a sharpened video sequence;  
calculating a first spectral energy information in said sharpened video sequence,  
calculating a second spectral energy information in said original video sequence,  
calculating false edge information data in said sharpened video sequence, and deriving  
said objective sharpness metric from said first and said second spectral energy  
information and said false edge information, said objective sharpness metric providing  
said objective sharpness quality score representative of the quality of said sharpened

video sequence". All the references of record, either singularly or in combination, fail to anticipate or render the above underlined limitation obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571) 272-7358. The examiner can normally be reached on 8:00 AM - 5:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TT  
May 5, 2006



Trang U. Tran  
Examiner  
Art Unit 2622